

(19) World Intellectual Property Organization International Bureau



**(43) International Publication Date
15 September 2005 (15.09.2005)**

PCT

**(10) International Publication Number
WO 2005/086418 A1**

(51) International Patent Classification⁷:

H04L 12/26

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:

PCT/GB2004/000804

(22) International Filing Date: 27 February 2004 (27.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): ACTIX LIMITED [GB/GB]; 200 Hammersmith Road, Hammersmith, London W6 7DL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DOBSON, Robert, William, Albert [GB/GB]; Hamlet House, 77 Fulham Palace Road, London W6 8JA (GB). REED, Keith [GB/GB]; 200 Hammersmith Road, Hammersmith, London W6 7DL (GB). GREENING, Christopher [GB/GB]; 200 Hammersmith Road, Hammersmith, London W6 7DL (GB).

(74) Agent: MARKS & CLERK; 66-68 Hills Road, Cambridge CB2 1LA (GB).

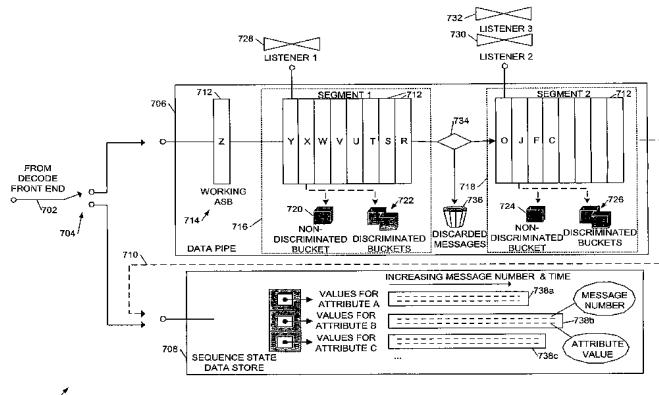
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DATA STORAGE AND PROCESSING SYSTEMS



(57) Abstract: This invention generally relates to systems, methods and computer program code storing and processing data, in particular large volumes of data captured by monitoring digital mobile communications networks such as digital mobile phone networks. A method of storing data captured from a digital communications network, for processing, said captured data comprising a stream of messages having message parameters, said stream of messages comprising messages of a plurality of communications sessions, the method comprising: inputting data from said stream of messages; writing, for sequential ones of said said stream of messages, sequential sets of parameters into a first FIFO (first-in first out) data structure, at an entry point of said first FIFO data structure; reading said sequential sets of parameters from an exit point of said first FIFO data structure; and writing sequential sets of parameters read from said first FIFO data structure into a second data structure; and wherein said entry point and said exit point are separated by a first data structure length; and wherein said first data structure length has a predetermined minimum value defined in terms of a number of said sets of parameters and/or a time between said writing of a said set of parameters into said first data structure and said reading of a said set of parameters from said first data structure.

WO 2005/086418 A1